

How to change front wheel bearing on Ford Fiesta JA8 – replacement guide

 VIDEO TUTORIAL

Important!

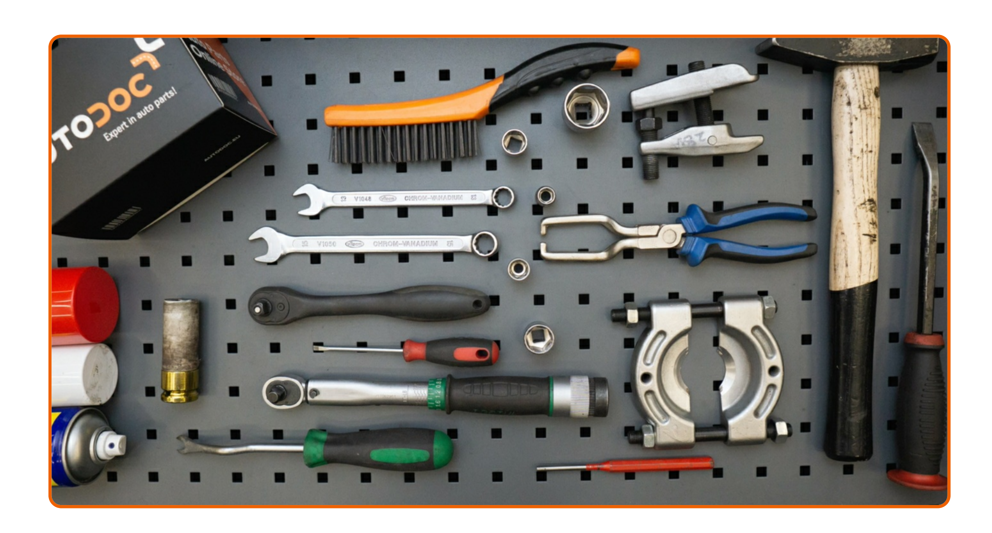
This replacement procedure can be used for:
FORD B-MAX (JK) 1.5 TDCi, FORD B-MAX Van (JK) 1.5 TDCi, FORD FIESTA VI (CB1, CCN) 1.5 TDCi, FORD FIESTA VI Van 1.5 TDCi

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The steps may slightly vary depending on the car design.



REPLACEMENT: WHEEL BEARING – FORD FIESTA JA8. LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Combination spanner #13
- Combination spanner #15
- Drive socket # 10
- Drive socket # 15
- Drive socket # 18
- Drive socket # 32
- Wheel impact socket #19
- Ratchet wrench
- Torque wrench
- Tap wrench
- Hammer
- Pin punch
- Flat Screwdriver
- Clip removal tool
- Circlip pliers
- Ball joint puller
- Bearing separator
- Bush and bearing driver set
- Vice
- Crow bar
- Wheel chock



Replacement: wheel bearing – Ford Fiesta JA8. Professionals recommend:

- Do not re-use the bearing assembly of your Ford Fiesta JA8 car.
- The wheel hub bearing replacement procedure is identical for both wheels on the same axle.
- All work should be done with the engine stopped.

REPLACEMENT: WHEEL BEARING – FORD FIESTA JA8. RECOMMENDED SEQUENCE OF STEPS:

1



Clean the fastener of the driveshaft. Use a wire brush. Use WD-40 spray.

2



Loosen the fastener of the driveshaft. Use a drive socket #32. Use a tap wrench.

3



Secure the wheels with chocks.

4



Loosen the wheel mounting bolts. Use wheel impact socket #19.

5



Raise the front of the car and secure on supports.

6



Unscrew the wheel bolts.

AUTODOC recommends:

- Important! Hold the wheel while unscrewing the fastening bolts. Ford Fiesta JA8

7



Remove the wheel.

8



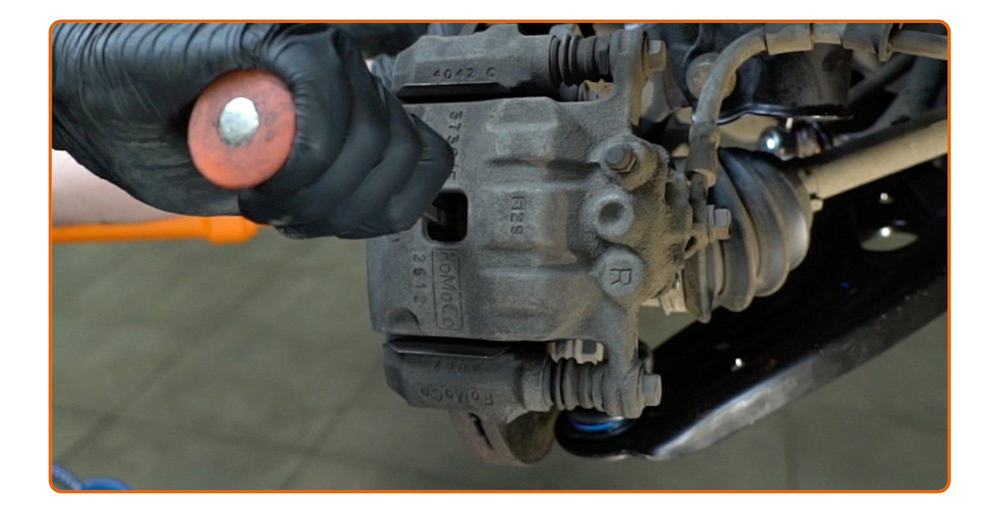
Disconnect the brake hose holder from the shock absorber strut. Use a drive socket #10. Use a ratchet wrench.

9



Detach the brake hose from the shock strut.

10



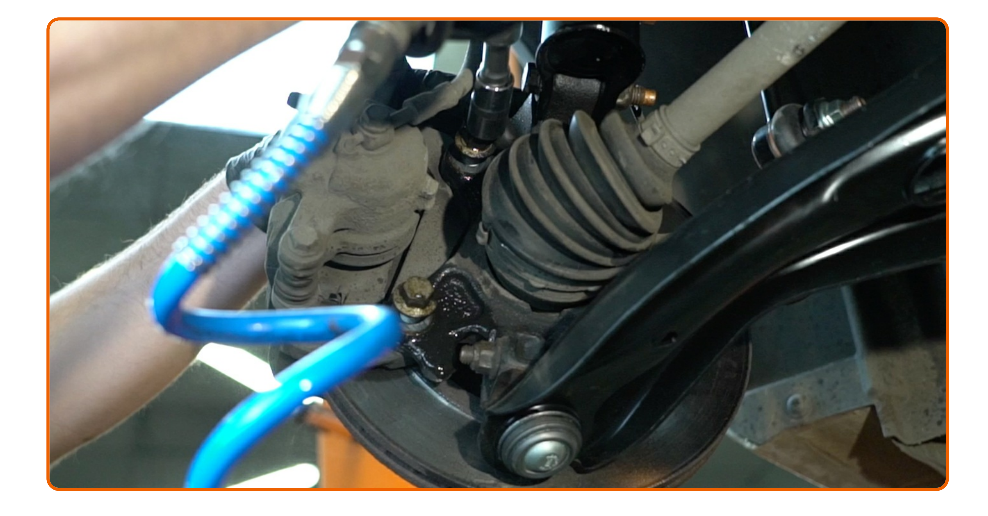
Spread the brake pads. Use a crowbar.

11



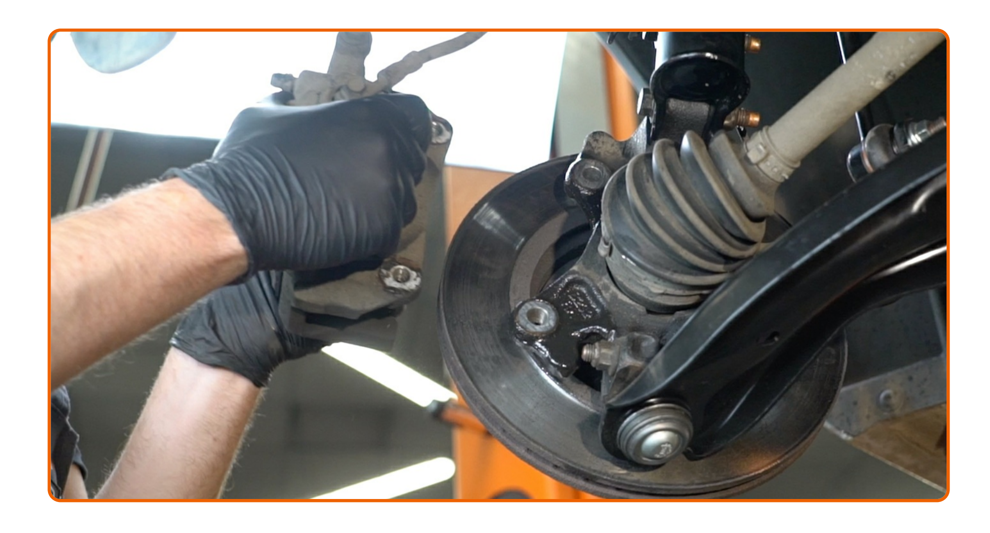
Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.

12



Unscrew the caliper bracket fastening. Use a drive socket #15. Use a tap wrench.

13



Remove the brake caliper together with its bracket.

Replacement: wheel bearing – Ford Fiesta JA8. AUTODOC recommends:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.

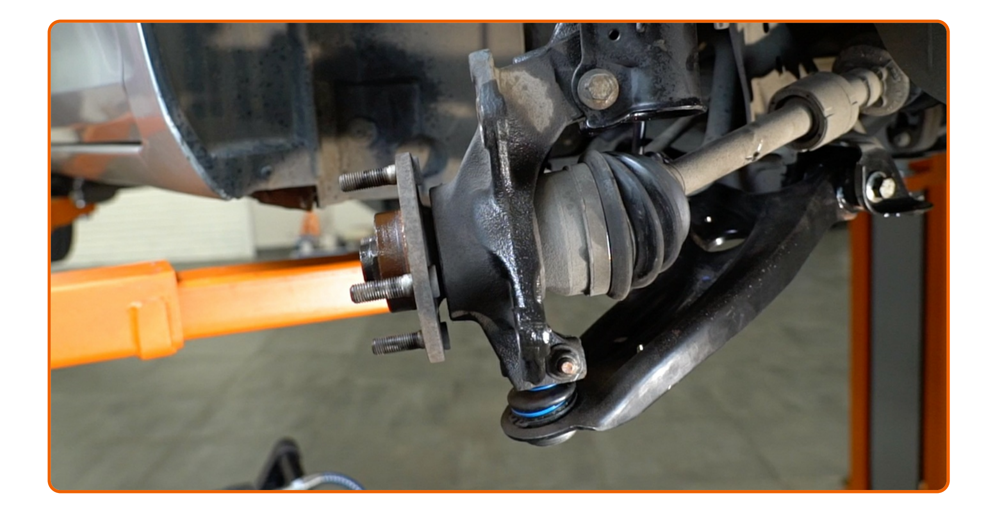
14



Clean the brake disc fasteners. Use a wire brush. Use WD-40 spray.



15



Remove the brake disc.

16



Disconnect the ABS sensor wiring.

17



Unscrew and remove the wheel arch cover fasteners. Use a clip removal tool.

18



Detach the ABS sensor connector.



19



Clean the fasteners connecting the shock strut to the steering knuckle. Use a wire brush. Use WD-40 spray.

20



Unscrew the lower fastener connecting the shock strut to the steering knuckle. Use a combination spanner #15. Use a drive socket #18. Use a ratchet wrench.

21



Clean all joints of the arm. Use a wire brush. Use WD-40 spray.

22



Unscrew the ball joint fastening to the steering knuckle. Use a combination spanner #13. Use a drive socket #15. Use a tap wrench.

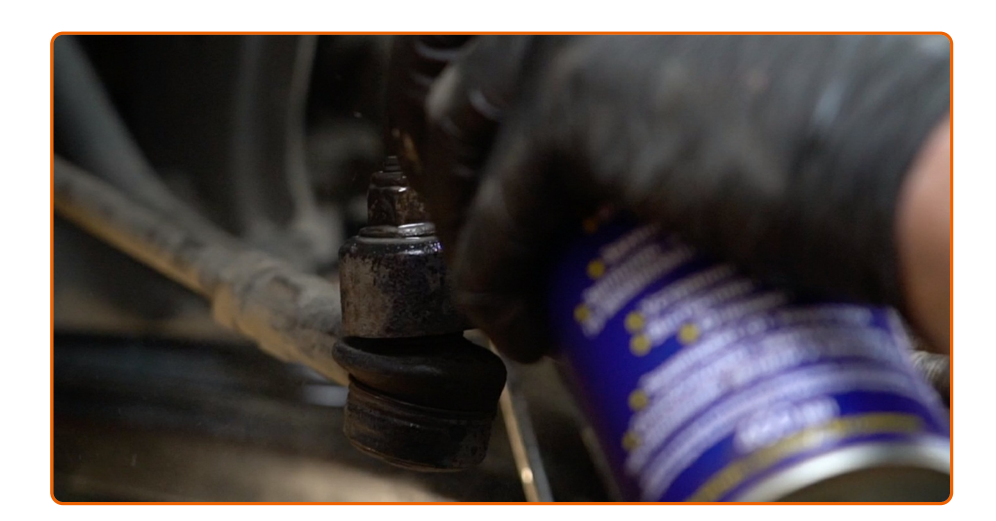


23



Remove the fastening bolt.

24



Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.

25



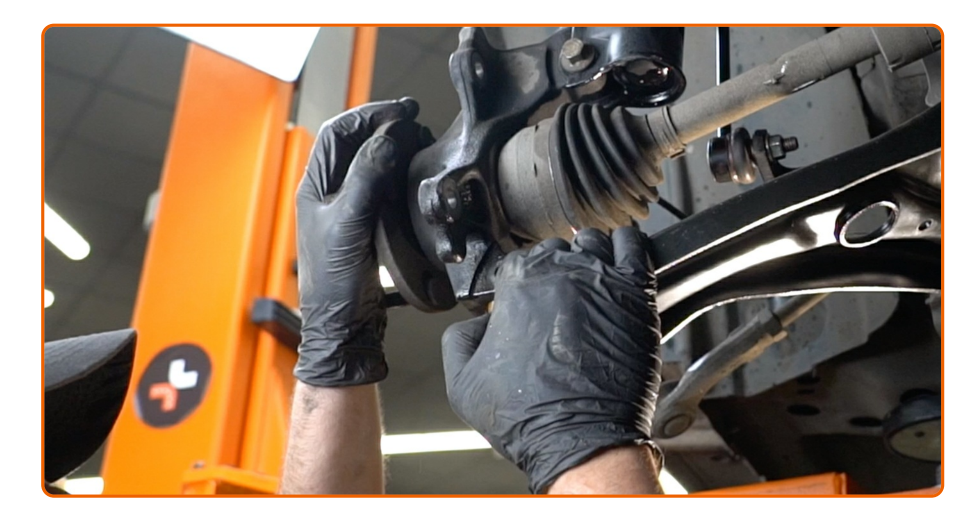
Unscrew the end fastening nut to the steering knuckle. Use a drive socket #18. Use a ratchet wrench.

26



Disconnect the tie rod end from the steering knuckle. Use a ball joint puller.

27



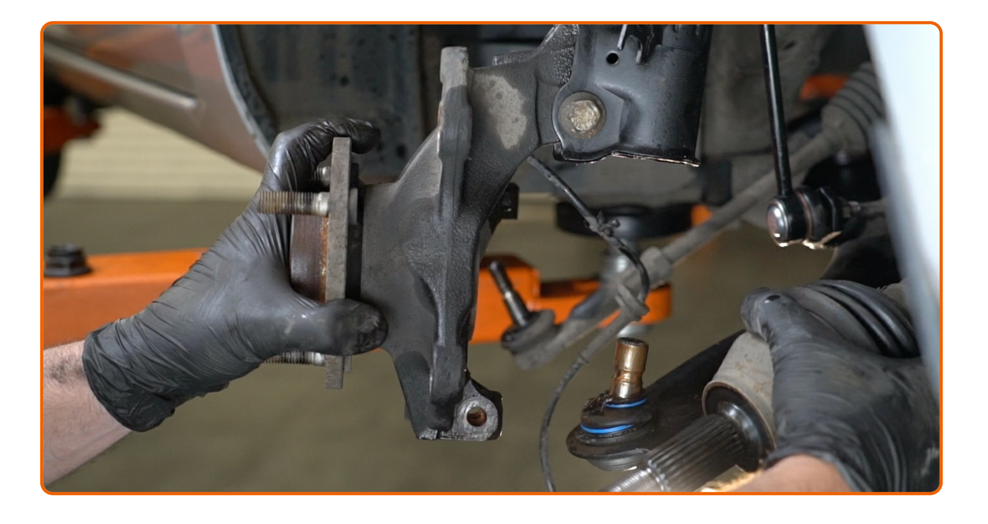
Disconnect the ball joint from the steering knuckle.

28



Remove the fastening nut.

29

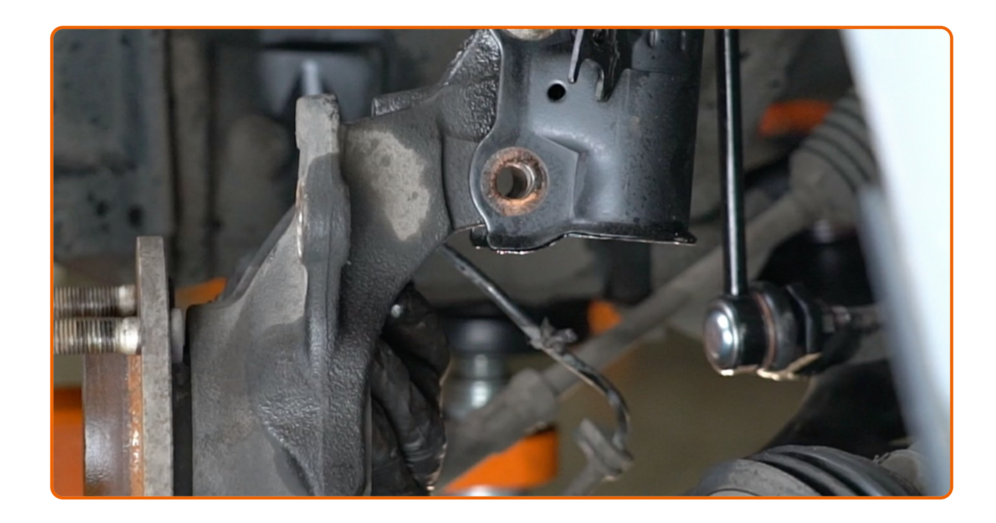


Detach the driveshaft from the steering knuckle.

Replacement: wheel bearing – Ford Fiesta JA8. Tip from AUTODOC:

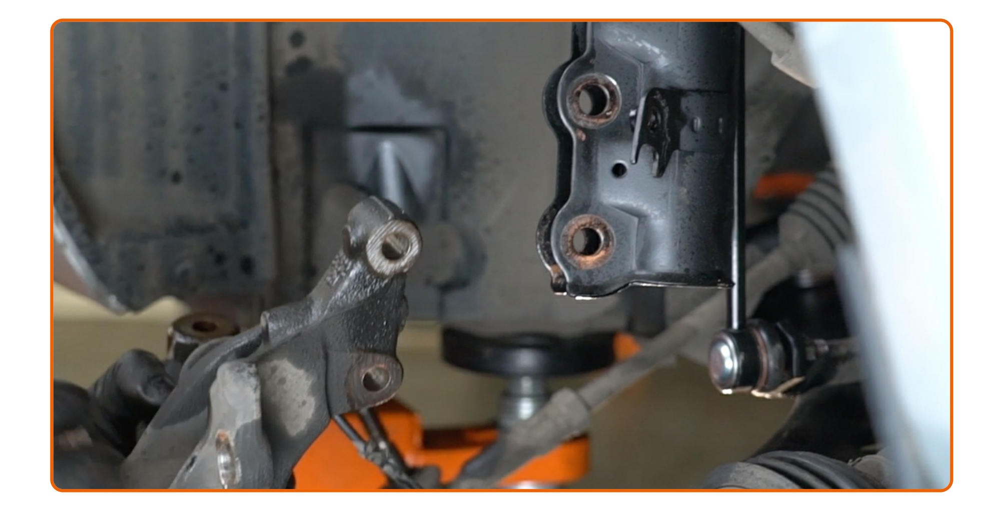
- Make sure that the drive shaft is not unloaded (when the car is jacked).

30



Remove the fastening bolts.

31



Disconnect the steering knuckle from the shock absorber strut.

32

Remove the steering knuckle together with the hub.

33



Grip the wheel hub together with the bearing in a vice.

34



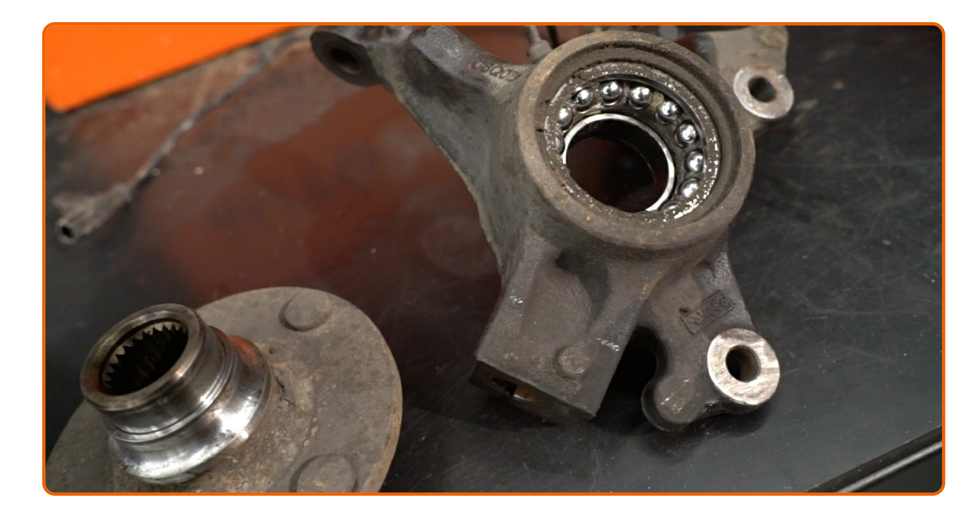
Remove the wheel hub from the steering knuckle. Use a pin punch. Use a hammer.

35



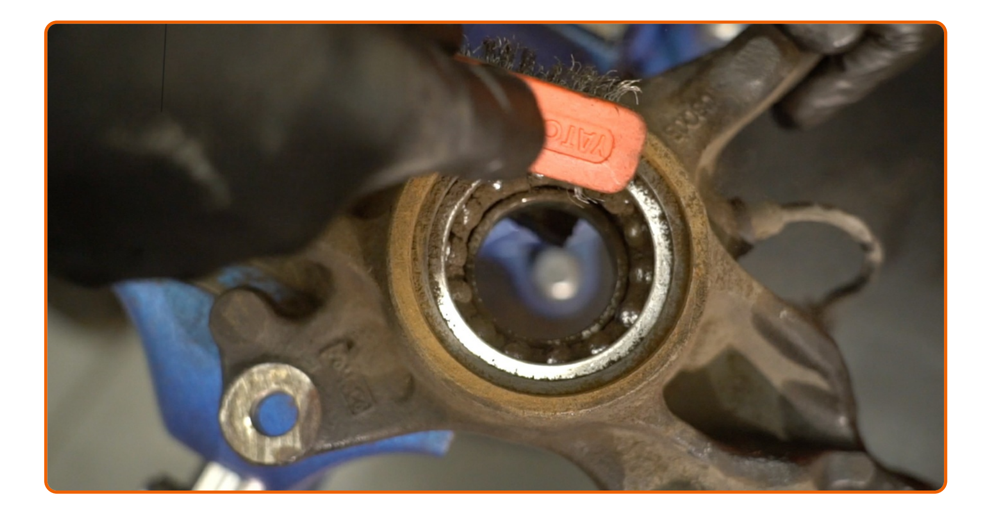
Release the vice and take out the wheel hub together with the bearing.

36



Pull the bearing inner race out of the wheel hub. Use a bearing separator. Use a pin punch. Use a hammer.

37



Clean the wheel hub bearing retaining ring. Use a wire brush. Use WD-40 spray.

38



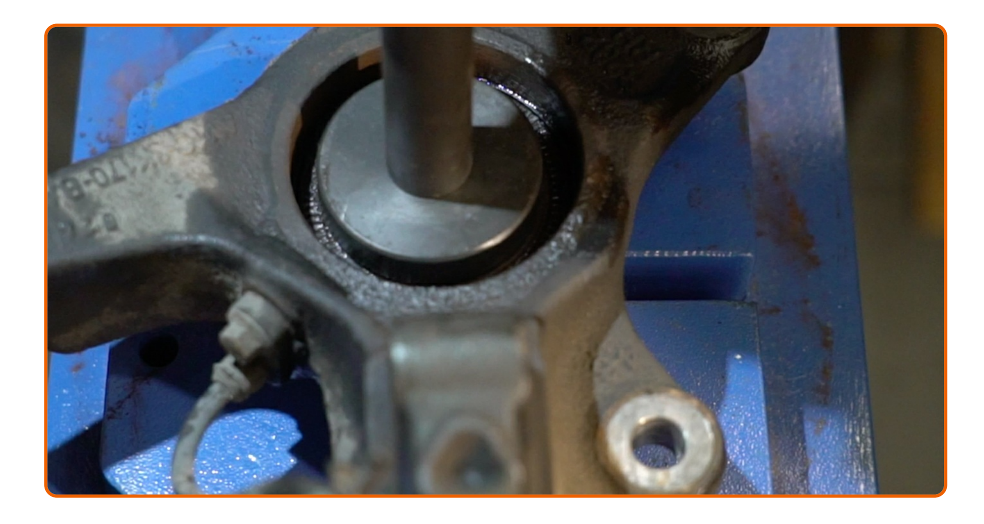
Remove the wheel hub bearing retaining ring. Use circlip pliers. Use a flat screwdriver.

39



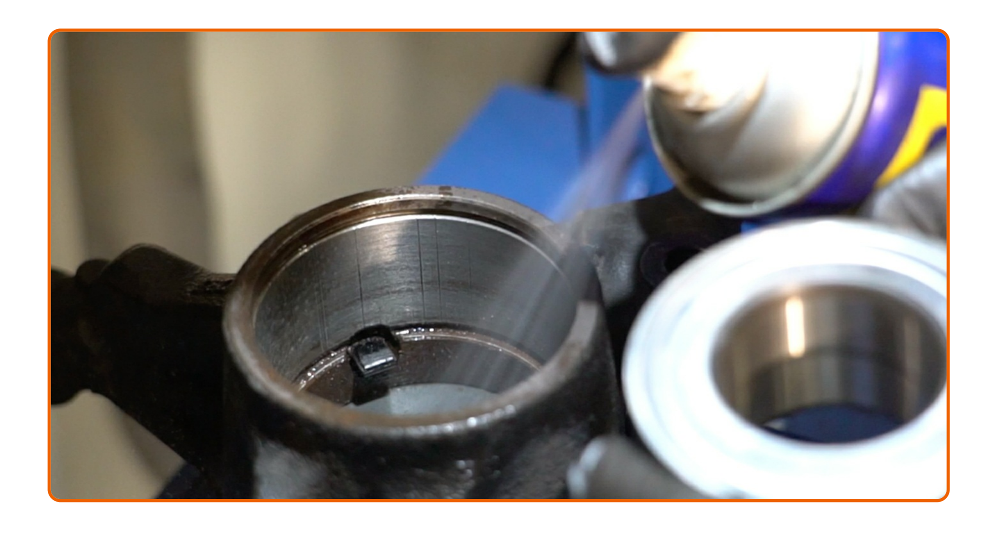
Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.

40



Press out the wheel hub bearing. Use a bush and bearing driver set.

41



Clean the hub bearing mounting seat. Use a wire brush. Use WD-40 spray.

42



Press the new bearing in the steering knuckle.

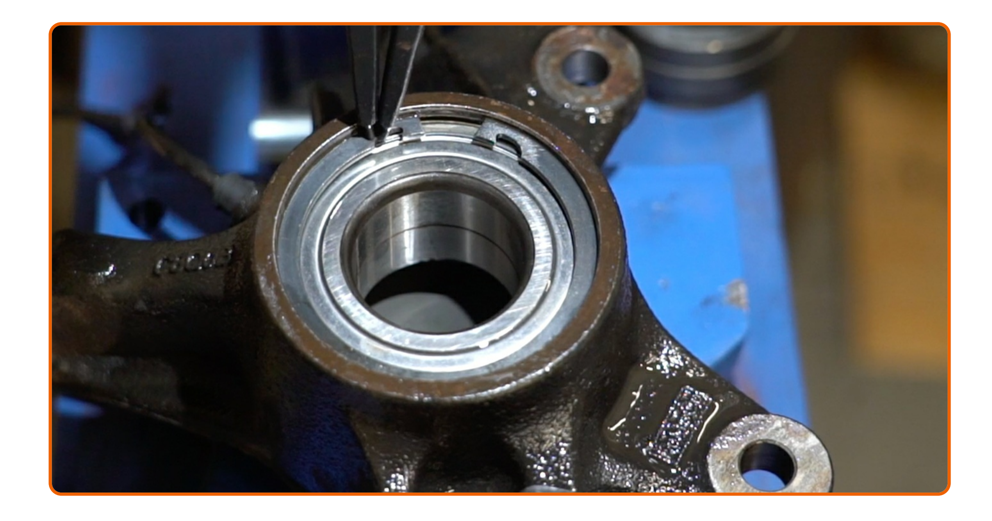
Replacement: wheel bearing – Ford Fiesta JA8. AUTODOC experts recommend:

- Check to make sure the wheel hub bearing is positioned correctly. Avoid its misalignment.
- Stop pressing on the surface of the bearing immediately after it has been fitted into its mounting seat.

43

Treat the fasteners of the wheel hub bearing. Use WD-40 spray.

44



Install the wheel hub bearing retaining ring. Use circlip pliers.

45



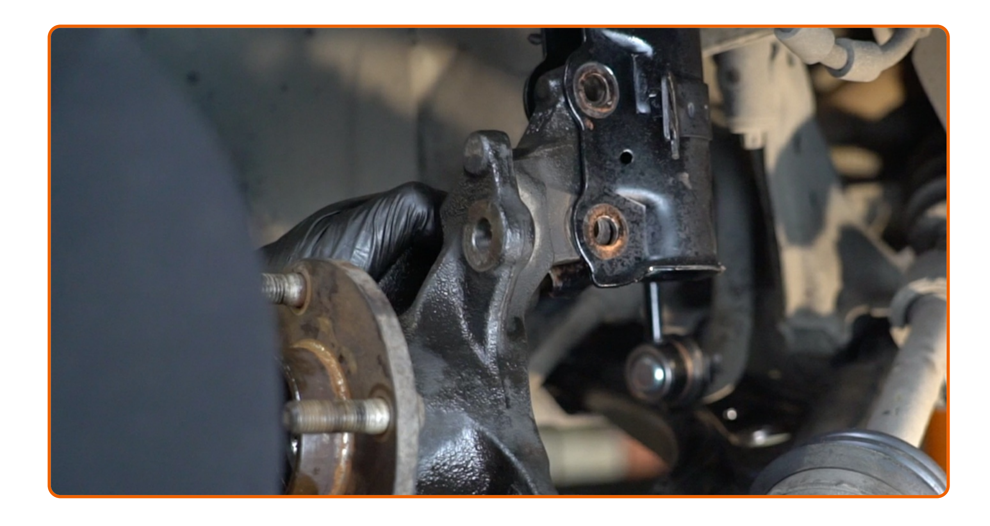
Install the wheel hub on the steering knuckle. Use a bush and bearing driver set.

46

Install the steering knuckle with a hub in assembly.

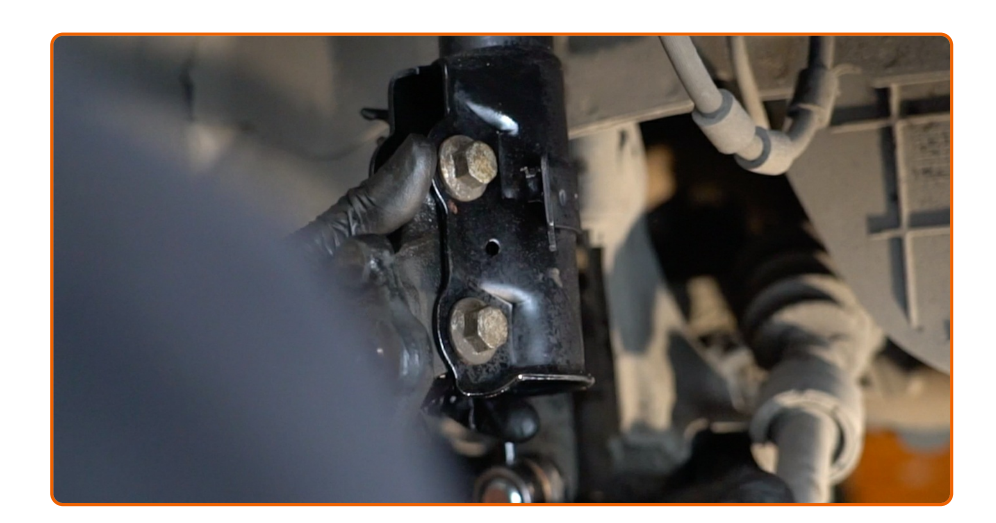


47



Fix the shock absorber strut on the steering knuckle.

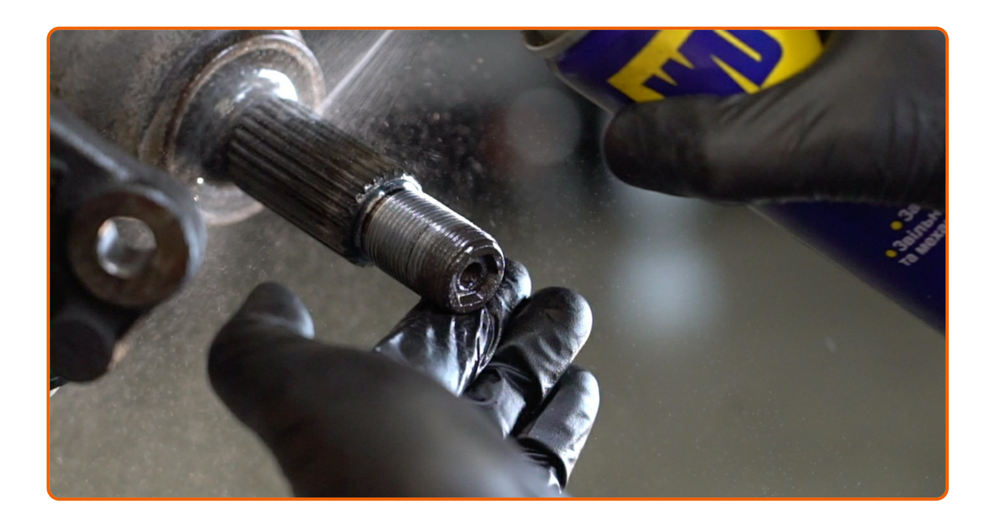
48



Install the fastening bolts.

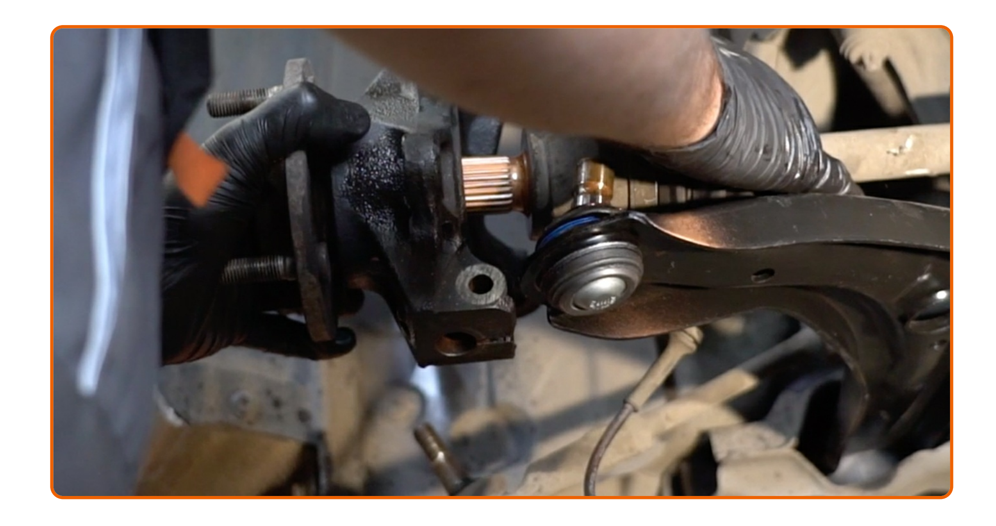


49



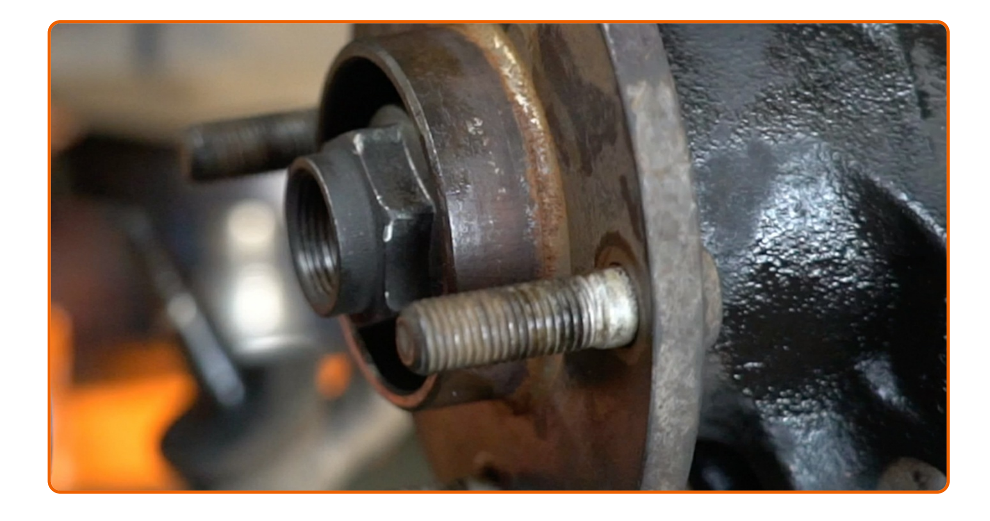
Clean the splines of the drive shaft CV joint. Use WD-40 spray.

50



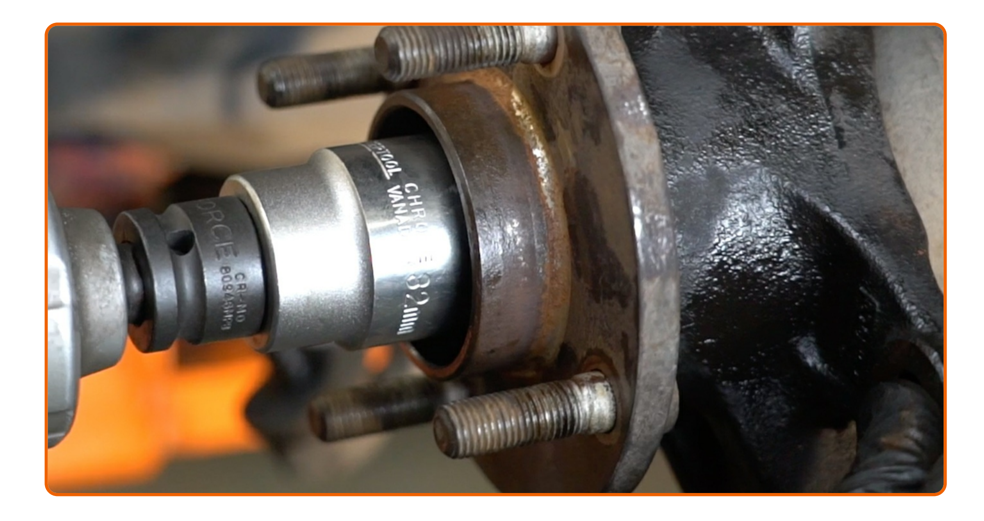
Install the drive shaft.

51



Install the fastening nut.

52



Screw the nut of the drive shaft. Use a drive socket #32. Use a ratchet wrench.

53



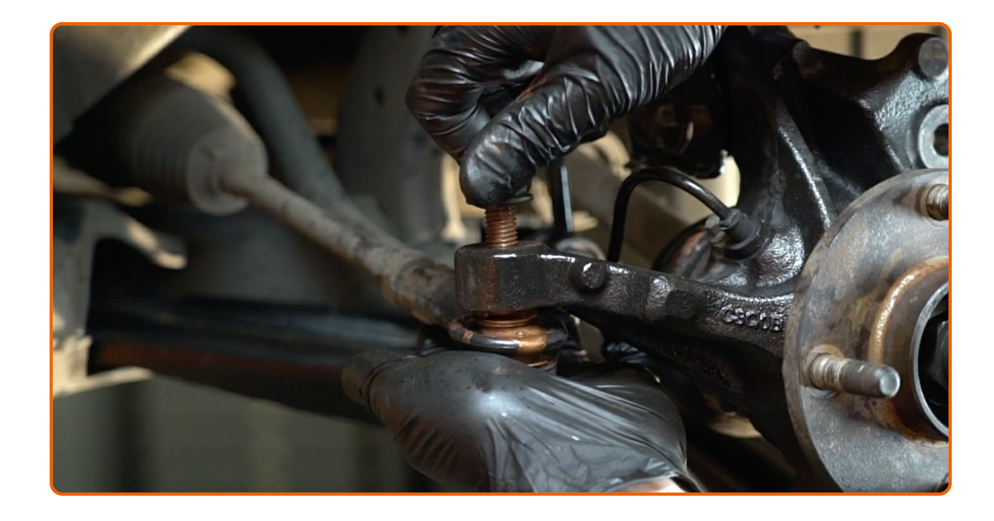
Connect the ball joint to the steering knuckle.

54



Clean the mounting seats of the tie rod end. Use a wire brush. Use WD-40 spray.

55



Connect the tie rod end to the steering knuckle.

56



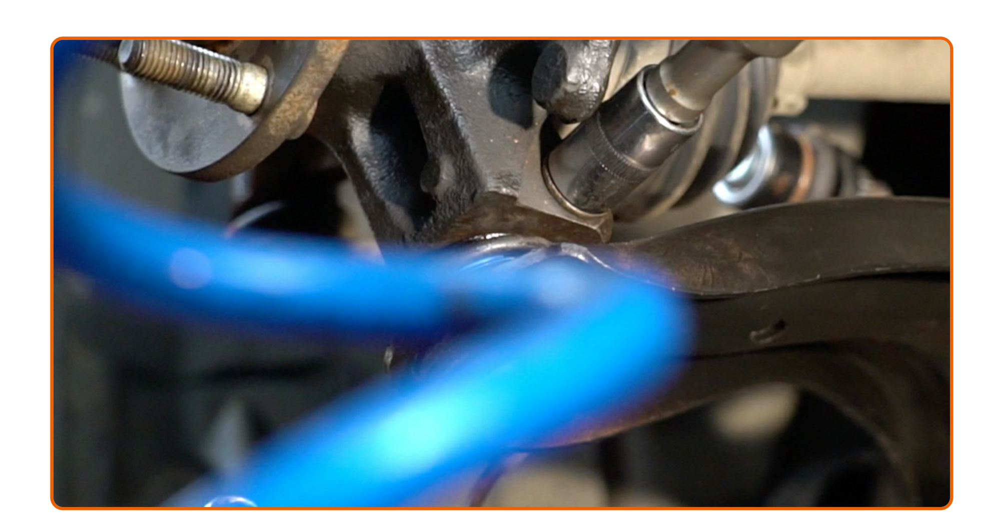
Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a drive socket #18. Use a ratchet wrench.

57



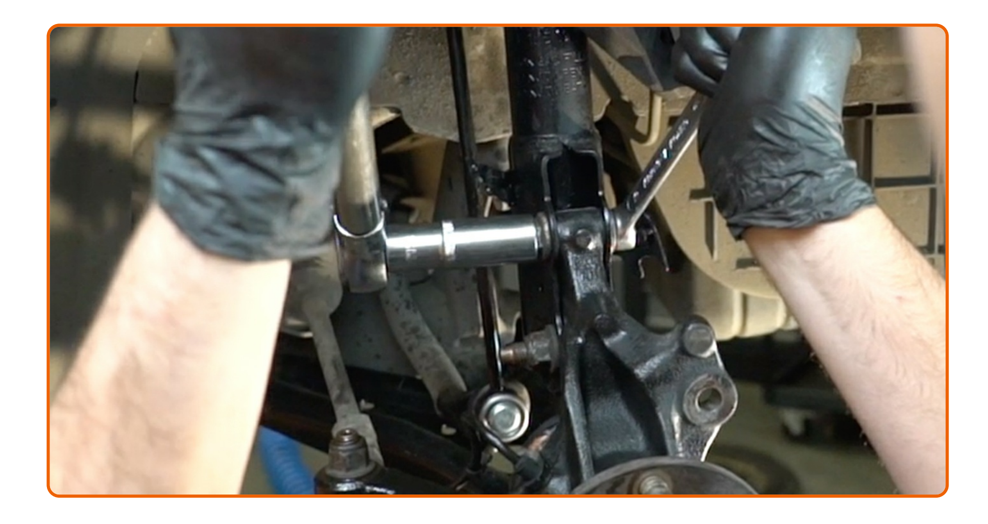
Install the fastening bolt.

58



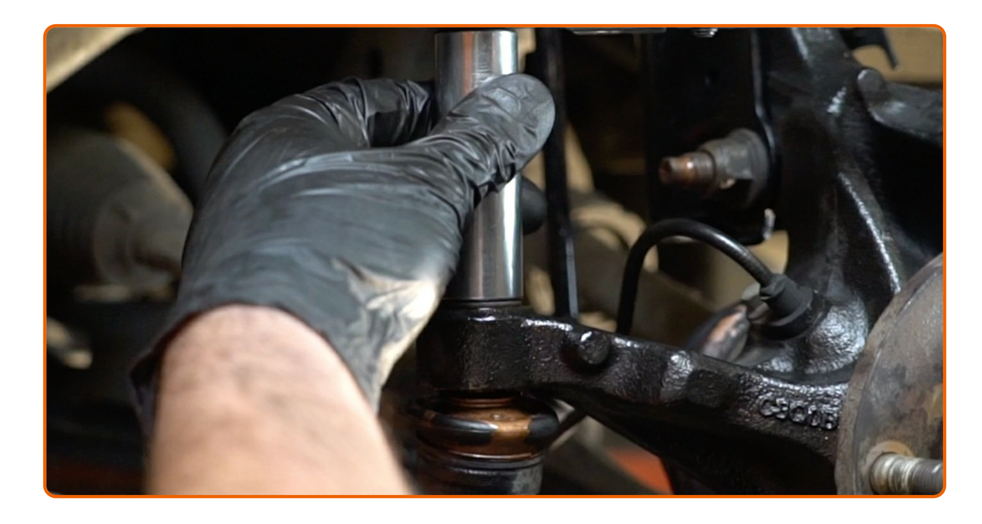
Screw the fasteners of the ball joint. Use a combination spanner #13. Use a drive socket #15. Use a ratchet wrench.

59



Tighten the lower fasteners connecting the shock strut to the steering knuckle. Use a combination spanner #15. Use a drive socket #18. Use a torque wrench. Tighten it to 77 Nm torque.

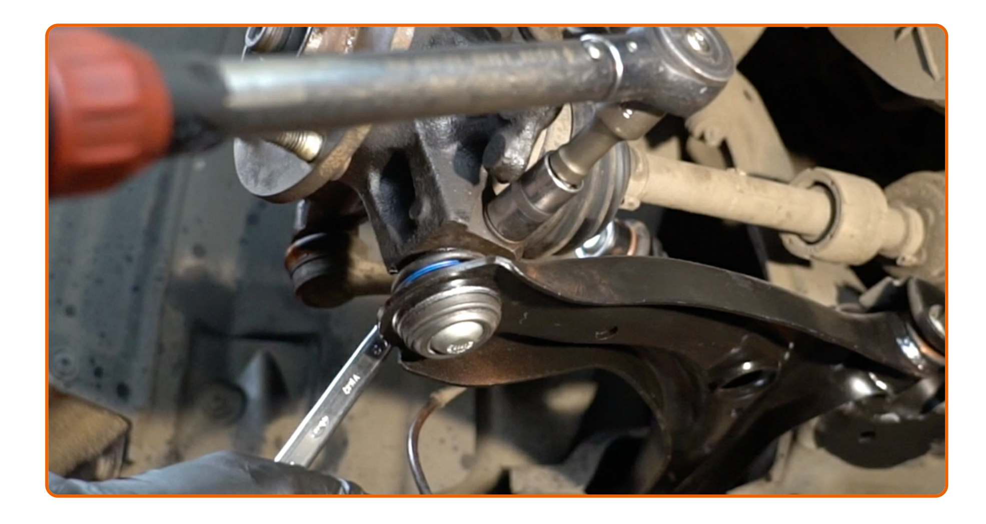
60



Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a drive socket #18. Use a torque wrench. Tighten it to 70 nm torque.



61



Tighten the ball joint fastener. Use a drive socket #15. Use a torque wrench. Tighten it to 50 Nm torque.

62



Connect the ABS sensor wiring.



63



Attach the ABS sensor connector.

64



Install and tighten the wheel arch cover fasteners.

65



Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.

66



Install the brake disc.

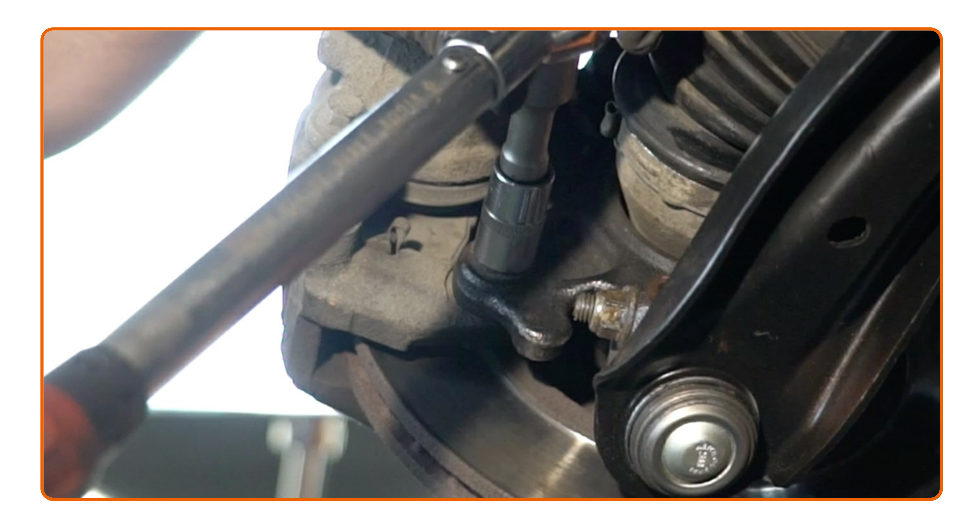


67



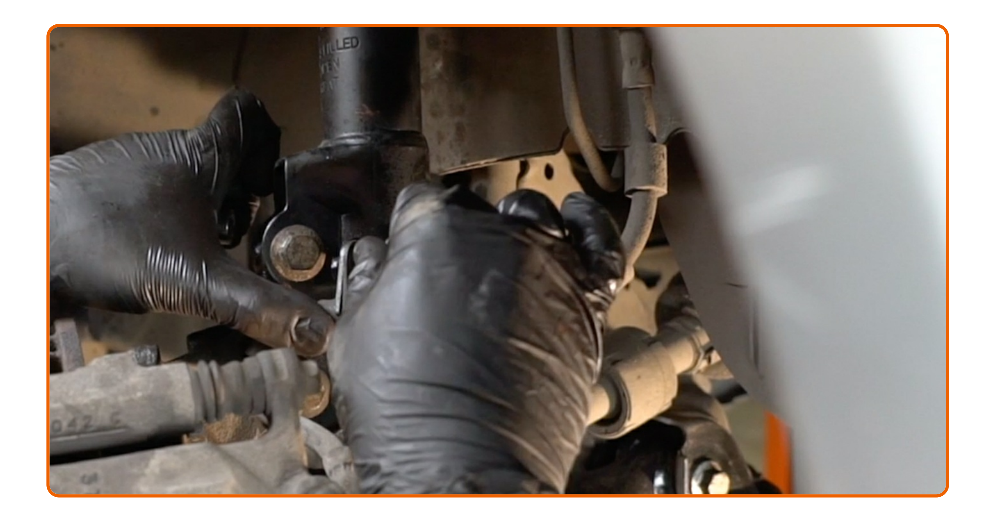
Install the brake caliper together with its bracket.

68



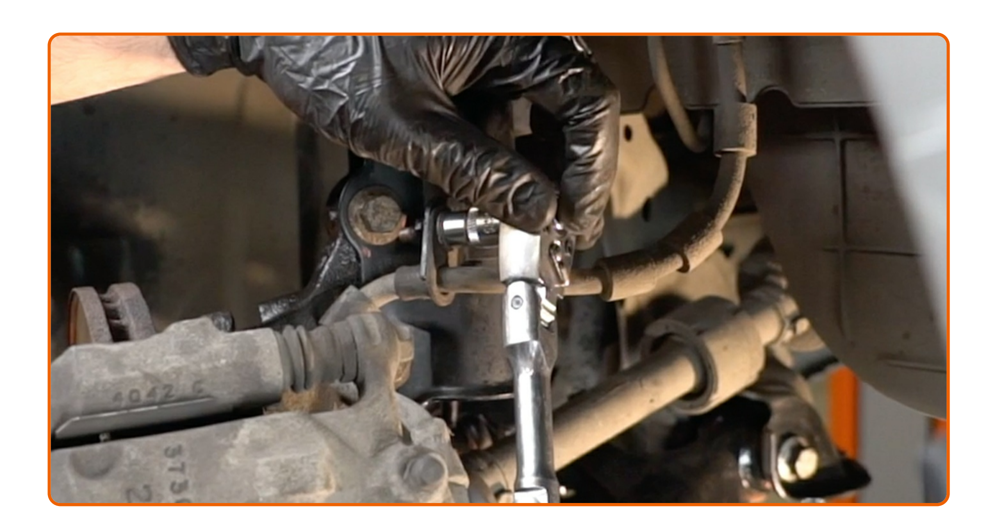
Tighten the brake caliper bracket. Use a drive socket #15. Use a torque wrench. Tighten it to 61 Nm torque.

69



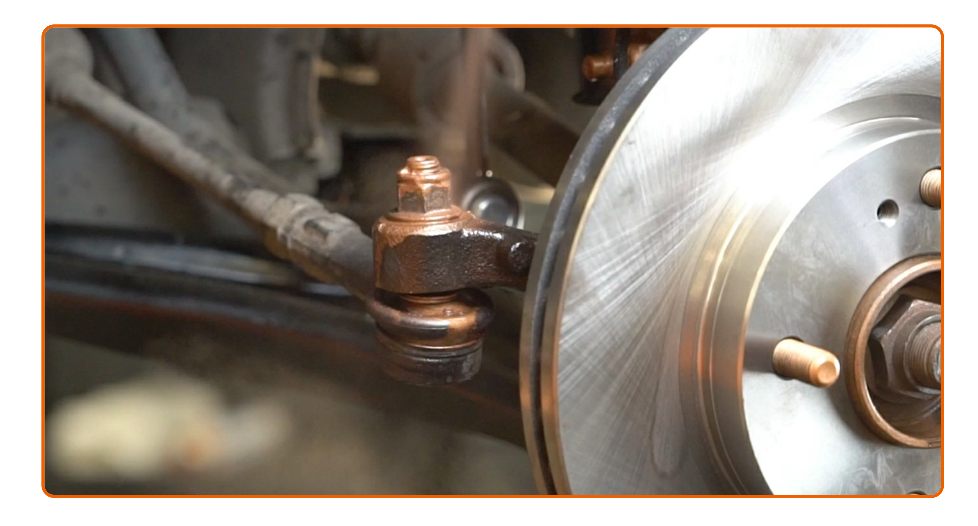
Fasten the brake hose on the strut.

70



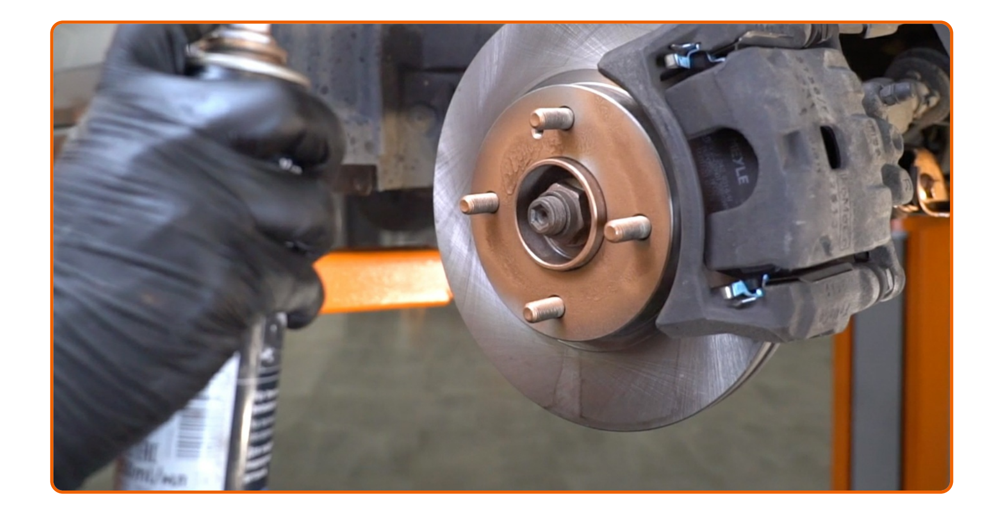
Connect the brake hose fastener to the shock absorber strut. Use a drive socket #10. Use a torque wrench. Tighten it to 7 Nm torque.

71



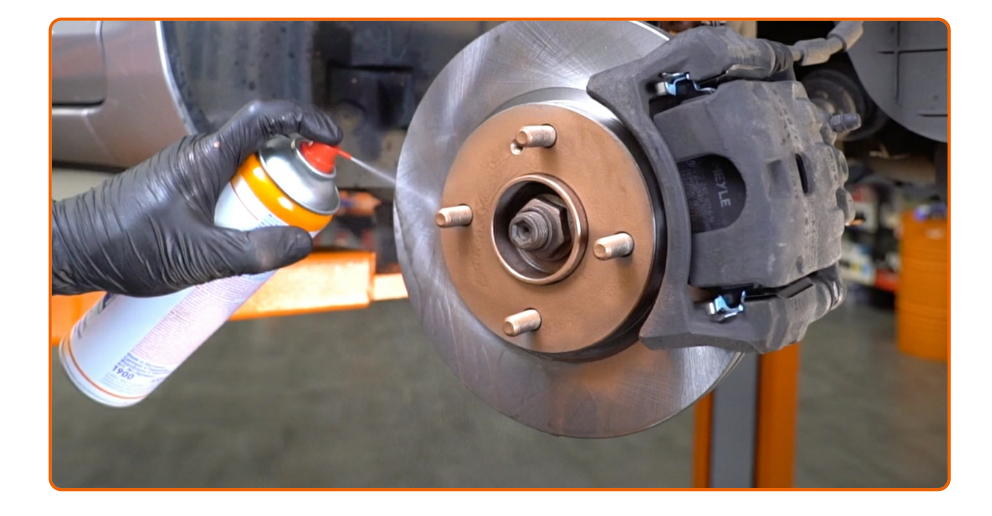
Treat the shock strut fasteners. Use copper grease.

72



Treat the surface where the brake disc contacts the wheel rim. Use copper grease.

73

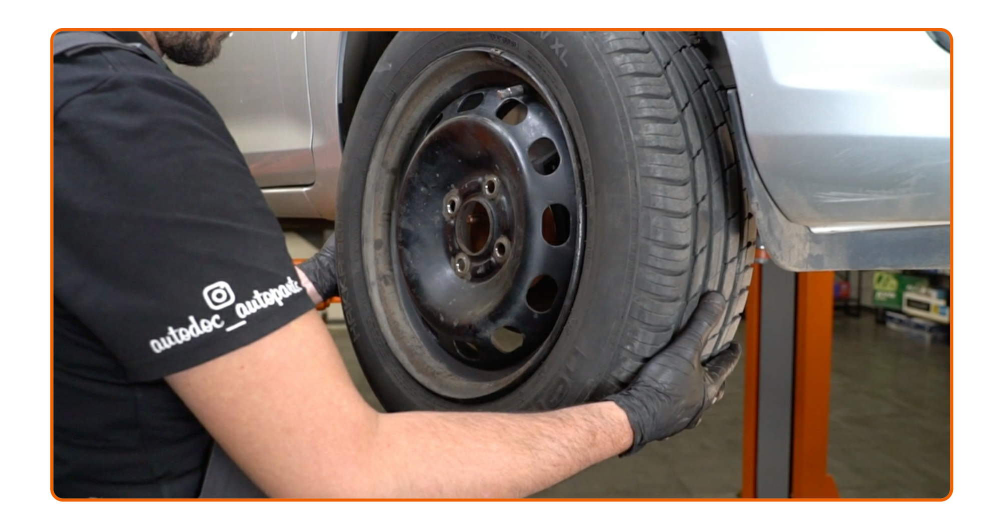


Clean the brake disk surface. Use a brake cleaner.

AUTODOC recommends:

- Replacement: wheel bearing – Ford Fiesta JA8. After applying the spray, wait a few minutes.

74



Install the wheel.

Replacement: wheel bearing – Ford Fiesta JA8. Tip:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

75



Screw in the wheel bolts. Use wheel impact socket #19.

76



Lower the car.

77



Tighten the drive shaft nut. Use a drive socket #32. Use a torque wrench. Tighten it to 158 Nm torque.

78



Tighten the wheel bolts using a criss-cross pattern. Use wheel impact socket #19. Use a torque wrench. Tighten it to 120 Nm torque.

79



Remove the jacks and chocks.



DID YOU FIND THESE INSTRUCTIONS HELPFUL?

YES

NO

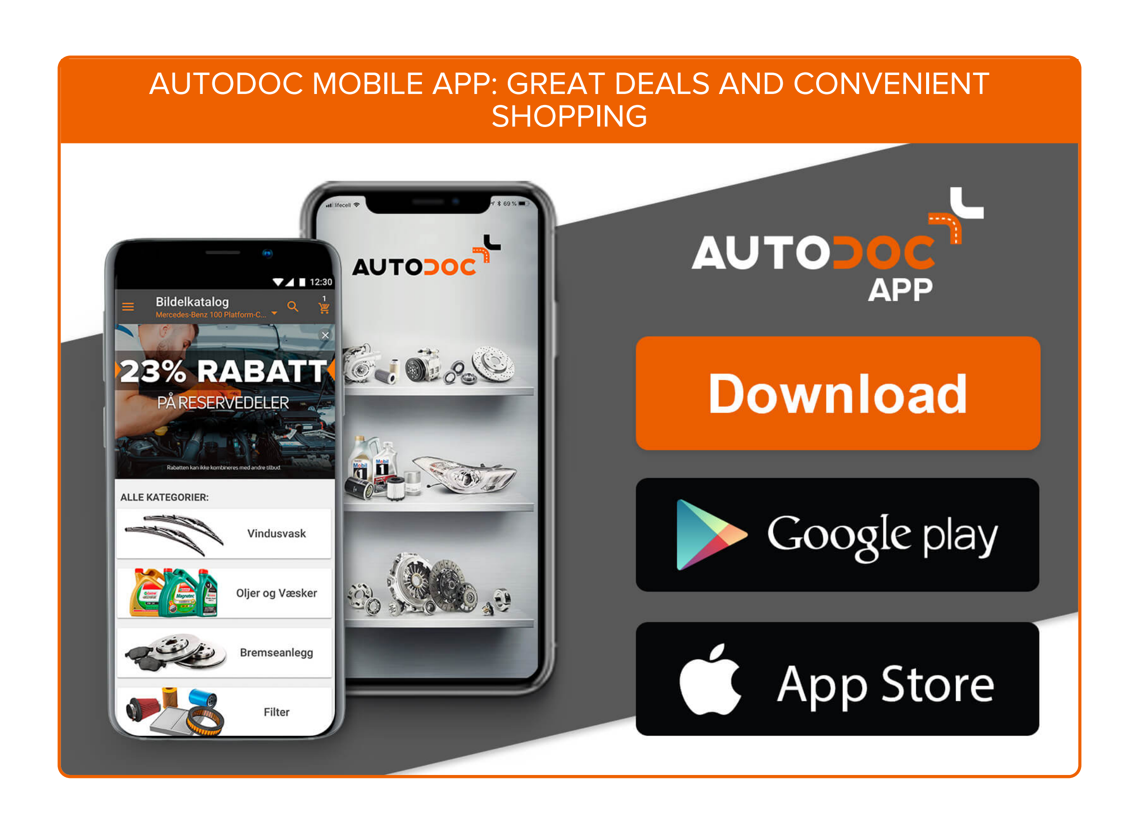


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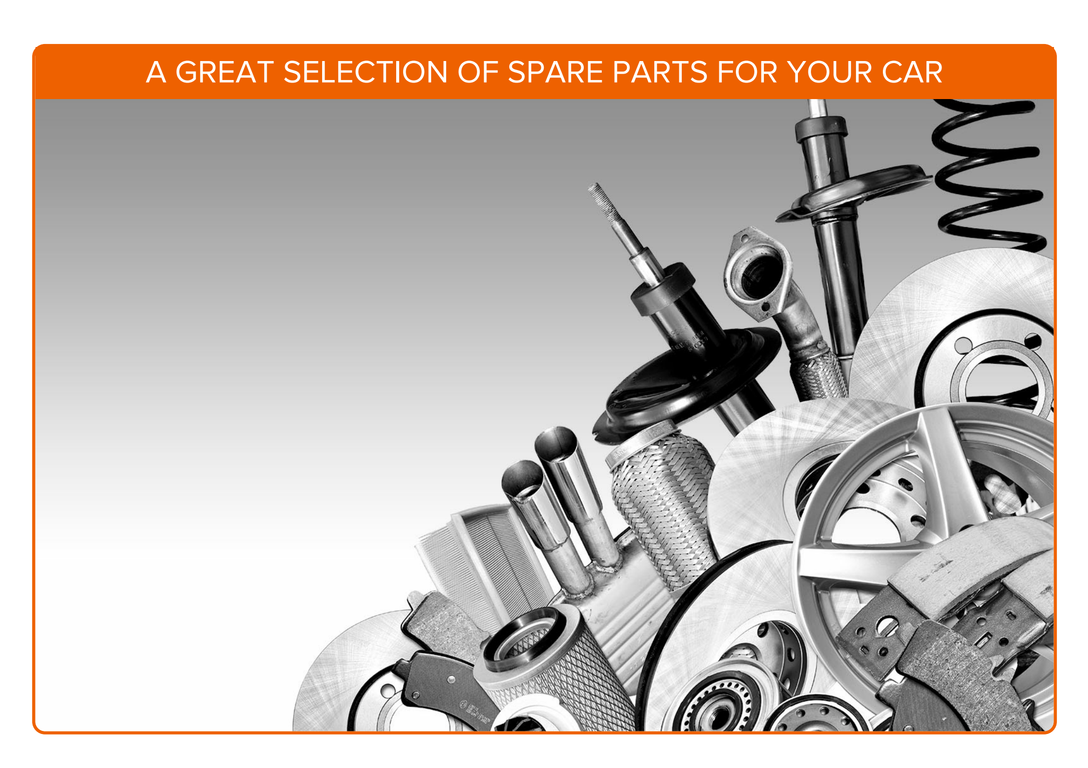


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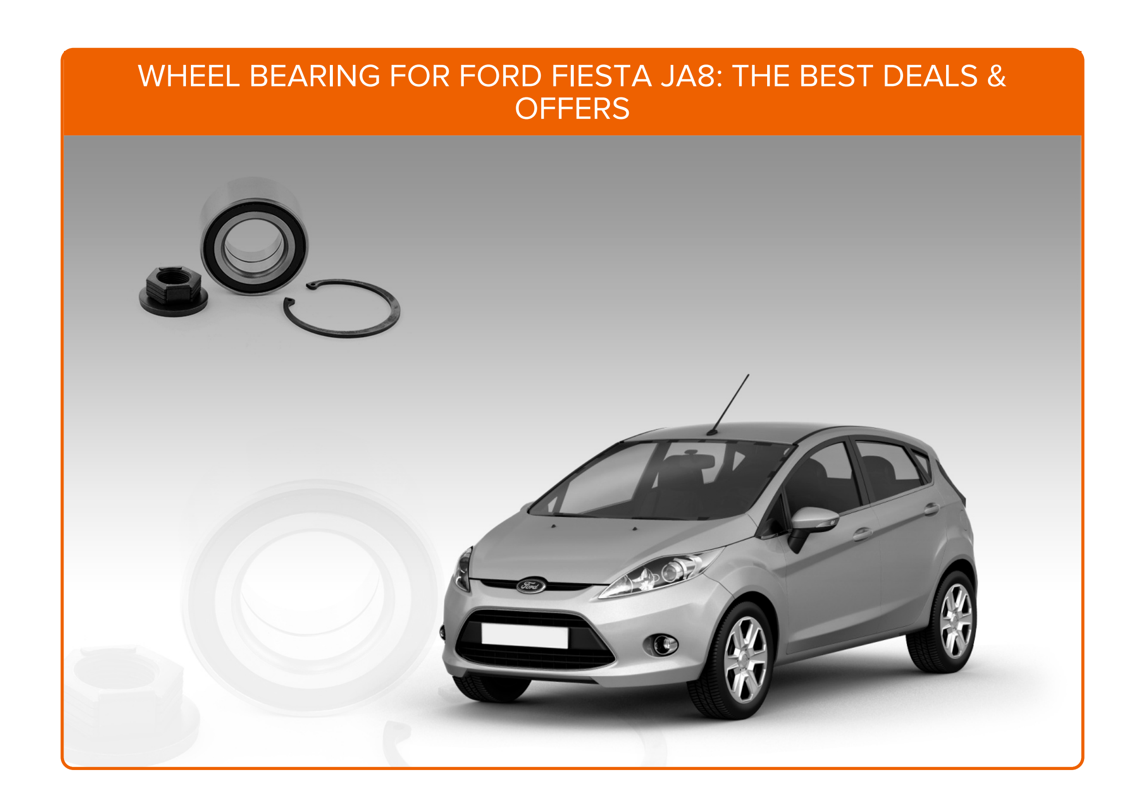


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